2012 SMART BRFSS County Methodology

Overview

The Behavioral Risk Factor Surveillance System (BRFSS) Selected Metropolitan/Micropolitan Area Risk Trends (SMART) is a subset of the 2012 BRFSS that has been produced to provide local area estimates. The data set was produced by adding new raking weights designed to correspond to the 2012 population estimates for each eligible county.

The counties available for 2012 have 500 or more respondents in the 2012 BRFSS combined landline telephone and cellular telephone data set. The selection of a county is not restricted to counties included within a Metropolitan/Micropolitan Statistical Area (MMSA).

County Identifiers

A county name was collected from the respondent during the demographics section of the interview. The name of the county was used to determine the corresponding American National Standards Institute (ANSI) county code retained as a variable in the data set.

Landline telephone data records resulting in an entry with a missing county variable value had an imputed county value assigned. The imputed county value is taken from the purchased telephone sample. The imputed county value represents the county most likely associated with the telephone number.

Cellular telephone data records resulting in entries with a missing county variable had an imputed county value assigned from one of three sources:

1. An open-end text response provided by the respondent, or
2. Information derived from the zip code provided by the respondent, or
3. The record was assigned to the largest county population by age and race/ethnicity.

Weighting Methodology

The BRFSS raking method used to generate the 2012 final weight is described in the documentation available with the annual aggregate data release. For the details of the description of the raking methodology, refer to the BRFSS 2012 Survey Data and Documentation Web page. The county weight was generated from additional raking, beginning with the BRFSS raked data set. The combined landline telephone and cellular telephone weight variable was raked to 5 margins, which are age group, gender, race and ethnicity group, gender by age group, and gender by race and ethnicity group at the county level.

The variable **_CNTY** is the ANSI code of the county where the respondent resides or the imputed value was assigned to a record with a missing county value. The variable **_CNTYWT** is the county-level weight variable that should be used when generating county-level estimates for questions that were asked of the entire sample.

The list of counties is included in Appendix A. There are 210 counties included for 2012 SMART County data that met the criterion of 500 interviews. The sample code for analysis is in Appendix B.

Appendix A:
List of the 210 Counties Having County-level Weights in the 2012 SMART BRFSS Data Set

State Number	County Number	County Name
1	73	Jefferson
1	89	Madison
1	97	Mobile
2	20	Anchorage
2	90	Fairbanks North Star
2	170	Matanuska-Susitna
4	13	Maricopa
4	19	Pima
5	119	Pulaski
6	1	Alameda
6	37	Los Angeles
6	59	Orange
6	65	Riverside
6	67	Sacramento
6	71	San Bernardino
6	73	San Diego
6	85	Santa Clara
8	1	Adams
8	5	Arapahoe
8	13	Boulder
8	31	Denver
8	35	Douglas
8	41	El Paso
8	59	Jefferson
8	69	Larimer
8	123	Weld
9	1	Fairfield
9	3	Hartford
9	5	Litchfield
9	9	New Haven
9	11	New London
10	1	Kent
10	3	New Castle
10	5	Sussex
11	1	District of Columbia

State Number	County Number	County Name
12	11	Broward
12	86	Miami-Dade
15	1	Hawaii
15	3	Honolulu
15	7	Kauai
15	9	Maui
16	1	Ada
16	27	Canyon
17	31	Cook
18	89	Lake
18	97	Marion
19	153	Polk
20	91	Johnson
20	173	Sedgwick
20	177	Shawnee
20	209	Wyandotte
21	111	Jefferson
22	33	E. Baton Rouge
23	1	Androscoggin
23	3	Aroostook
23	5	Cumberland
23	11	Kennebec
23	19	Penobscot
23	31	York
24	3	Anne Arundel
24	5	Baltimore
24	17	Charles
24	21	Frederick
24	31	Montgomery
24	33	Prince George's
24	43	Washington
24	510	Baltimore (city)
25	1	Barnstable
25	5	Bristol
25	9	Essex
25	13	Hampden
25	17	Middlesex
25	21	Norfolk

State Number	County Number	County Name
25	23	Plymouth
25	25	Suffolk
25	27	Worcester
26	81	Kent
26	99	Macomb
26	125	Oakland
26	163	Wayne
27	3	Anoka
27	37	Dakota
27	53	Hennepin
27	123	Ramsey
29	95	Jackson
29	189	St. Louis
30	13	Cascade
30	29	Flathead
30	41	Hill
30	47	Lake
30	63	Missoula
30	111	Yellowstone
31	43	Dakota
31	55	Douglas
31	79	Hall
31	109	Lancaster
31	111	Lincoln
31	153	Sarpy
31	157	Scotts Bluff
32	3	Clark
32	31	Washoe
33	1	Belknap
33	3	Carroll
33	5	Cheshire
33	7	Coos
33	9	Grafton
33	11	Hillsborough
33	13	Merrimack
33	15	Rockingham
33	17	Strafford
34	1	Atlantic

State Number	County Number	County Name
34	3	Bergen
34	5	Burlington
34	7	Camden
34	9	Cape May
34	11	Cumberland
34	13	Essex
34	15	Gloucester
34	17	Hudson
34	19	Hunterdon
34	21	Mercer
34	23	Middlesex
34	25	Monmouth
34	27	Morris
34	29	Ocean
34	31	Passaic
34	33	Salem
34	35	Somerset
34	37	Sussex
34	39	Union
34	41	Warren
35	1	Bernalillo
35	13	Dona Ana
35	43	Sandoval
35	45	San Juan
35	49	Santa Fe
36	47	Kings
37	81	Guilford
37	119	Mecklenburg
37	155	Robeson
37	183	Wake
38	15	Burleigh
38	17	Cass
39	35	Cuyahoga
39	49	Franklin
39	61	Hamilton
39	93	Lorain
39	95	Lucas
39	99	Mahoning

State Number	County Number	County Name
39	113	Montgomery
39	151	Stark
39	153	Summit
40	109	Oklahoma
40	143	Tulsa
41	5	Clackamas
41	39	Lane
41	51	Multnomah
41	67	Washington
42	3	Allegheny
42	15	Bradford
42	91	Montgomery
42	101	Philadelphia
42	103	Pike
44	3	Kent
44	7	Providence
44	9	Washington
45	3	Aiken
45	13	Beaufort
45	19	Charleston
45	45	Greenville
45	51	Horry
45	79	Richland
45	83	Spartanburg
46	83	Lincoln
46	99	Minnehaha
46	103	Pennington
47	37	Davidson
47	157	Shelby
48	29	Bexar
48	113	Dallas
48	141	El Paso
48	201	Harris
48	215	Hidalgo
48	439	Tarrant
48	453	Travis
49	11	Davis
49	35	Salt Lake

State Number	County Number	County Name
49	45	Tooele
49	49	Utah
49	51	Wasatch
49	57	Weber
50	7	Chittenden
50	21	Rutland
50	23	Washington
50	27	Windsor
51	59	Fairfax
53	11	Clark
53	33	King
53	35	Kitsap
53	53	Pierce
53	61	Snohomish
53	63	Spokane
53	67	Thurston
53	73	Whatcom
53	77	Yakima
54	39	Kanawha
55	79	Milwaukee
56	21	Laramie
56	25	Natrona
72	127	San Juan

Appendix B: Sample Code for Analysis

SUDAAN Code Example:

To estimate for DeKalb County, GA (_STATE=13, _CNTY=89),the following SAS/SUDAAN code could be used:

```
data xxxx;
set yyyy;

if (_STATE=13 & _CNTY=89) then DUMMY=1;
run;

proc sort data=xxxx;
by _STSTR SEQNO;
run;

proc descript data=xxxx filetype=sas design=wr;
nest _STSTR SEQNO / missunit;
weight _CNTYWT;
subpopn DUMMY=1 / name="DeKalb County, GA";
var (your analysis variable);
catlevel (the level of your analysis variable for which you want an estimate);
run;
```

SAS Code Example:

```
proc surveymeans data=xxxx nobs mean stderr sum sumwgt;
strata _ststr;
weight _cntywt;
var (your analysis variable);
class (your analysis variable);
domain _state*_cnty;
run;
```